

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2004-348689

(43)Date of publication of application : 09.12.2004

(51)Int.Cl. G06F 17/60
G06F 15/00
G06K 17/00
G06K 19/00
H04L 9/32

(21)Application number : 2003-162669 (71)Applicant : SONY CORP

(22)Date of filing : 06.06.2003 (72)Inventor : OBA HARUO
REKIMOTO JIYUNICHI
ARIMA FUMIHIRO

(30)Priority

Priority number : 2003088577 Priority date : 27.03.2003 Priority country : JP

(54) INFORMATION PROCESSING SYSTEM AND OBJECT

(57)Abstract:

PROBLEM TO BE SOLVED: To construct a user interface by which a user is simply promptly authenticated and more user friendly one is available.

SOLUTION: The user previously acquires a best friend pochara (R) doll authenticating the user's self and a memory card-like detection card 23. The best friend pochara doll self-contains an IC chip storing user ID (Identification). Pressing a transmission button by bringing the best friend pochara doll close to the detection card 23 connected to a personal computer 22a candidate for operation by the user reads the user ID stored on the IC chip by means of an infrared transmission and reception section self-contained in the detection card 23. The user ID is transmitted through the Internet 1 to a pochara service server 9. The pochara service server 9 previously registers the personal information of each user on a pochara database 10. Authentication processing is conducted based on the information.

CLAIMS

[Claim(s)]

[Claim 1]

An object which has a transmission section which holds user identification information which identifies a user and does wireless transmission of the user identification information concerned

An information processor which performs data processing

It has a receive section which does radio receiving of the user identification information transmitted from the above-mentioned object and has a receiving set of card shape attached to the above-mentioned information processor enabling free wearing

The above-mentioned information processor reads the above-mentioned user identification information which the above-mentioned object holds via a receiving set of the above-mentioned card shape. A program which accesses data of the above-mentioned attestation user who made the picture concerned a user interface while attesting read user identification information making access possible at an attestation user's data and displaying a picture corresponding to appearance of the above-mentioned object on an indicator is started.

An information processing system by which it is characterized.

[Claim 2]

Appearance of the above-mentioned object is a doll.

The information processing system according to claim 1 by which it is characterized.

[Claim 3]

The above-mentioned information processor displays a two-dimensional picture of the above-mentioned doll as a picture corresponding to appearance of the above-mentioned object.

The information processing system according to claim 2 by which it is characterized.

[Claim 4]

In a receiving set of the above-mentioned card shape an illustration corresponding to appearance of the above-mentioned object is indicated on the surface.

The information processing system according to claim 3 by which it is characterized.

[Claim 5]

A transmission section of the above-mentioned object and a receive section of the above-mentioned receiving set transmit and receive data with infrared rays.

The information processing system according to claim 1 by which it is characterized.

[Claim 6]

It is an object used when using an information processor

A memory which memorizes user identification information which identifies a user who owns

It has with a transmission section for carrying out wireless transmission of the above-mentioned user identification information

The above-mentioned user identification information is read by the above-mentioned information processor and the information processor concerned attests user identification information which read and read the user identification information concerned and makes access possible at an attestation user's data

The appearance is equivalent to a picture displayed as a user interface after the above-mentioned information processor reads user identification information.

An object by which it is characterized.

[Claim 7]

The above-mentioned appearance is a doll.

The object according to claim 6 by which it is characterized.

[Claim 8]

The above-mentioned transmission section transmits data with infrared rays.

The object according to claim 6 by which it is characterized.

[Claim 9]

It is a receiving set of card shape attached enabling free wearing to an information processor which performs data processing

It has with a receive section for carrying out radio receiving of the user identification information concerned from an object holding user identification information

The above-mentioned receive section transmits the above-mentioned user identification information read in the above-mentioned object to the above-mentioned information processor.

A receiving set of card shape by which it is characterized.

[Claim 10]

In the surface an illustration corresponding to appearance of the above-mentioned object is indicated.

A receiving set of the card shape according to claim 9 by which it is characterized.

[Claim 11]

The above-mentioned receive section receives data with infrared rays.

A receiving set of the card shape according to claim 9 by which it is characterized.

[Claim 12]

It is a program started with an information processor with which a receiving set of card shape which carries out radio receiving of the user identification information transmitted from an object holding user identification information which identifies a user was attached

The above-mentioned user identification information which the above-mentioned object holds via a receiving set of the above-mentioned card shape is read and user identification information is attested and access is made possible at an attestation user's data

The above-mentioned attestation user's data is accessed based on an user datum into which the picture concerned was inputted as a user interface while displaying a picture corresponding to appearance of the above-mentioned object on an indicator.

A program by which it is characterized.

[Claim 13]

An object which has a transmission section which holds user identification information which identifies a user and does wireless transmission of the user identification information concerned

It has a receive section which does radio receiving of the user identification information transmitted from the above-mentioned object and a receiving set of card shape attached enabling free wearing to an information processor which performs data processing is package-ized in one

The above-mentioned information processor reads the above-mentioned user identification information which the above-mentioned object holds via a receiving set of the above-mentioned card shape. A program which accesses data of the above-mentioned attestation user who made the picture concerned a user interface while attesting read user identification information making access possible at an attestation user's data and displaying a picture corresponding to appearance of the above-mentioned object on an indicator is started.

An information processing system by which it is characterized.

DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Field of the Invention]

This invention relates to an information processing system provided with the information processor which operates a user interface program, the object used at the time of starting of the user interface concerned and the receiving set of card shape and the program for the above-mentioned user interfaces.

[0002]

[Description of the Prior Art]

These days, the network represented by the Internet spreads and various kinds of contents data of a video data, audio information etc. can be downloaded via a network and can be used now.

[0003]

[Patent documents 1]

JP2001-224867A

[0004]

[Problem(s) to be Solved by the Invention]

As for a user, when acquiring contents data via a network until now, it is common to download the contents data which accesses a server via a network from a personal computer and is stored in the server. The keyboard etc. which are attached to a

personal computer in ID currently beforehand assigned to itself or a password in order to make it attest at this time that as for a user the person himself/herself accesses to a server are operated and it inputs.

[0005]

However if ID and a password are made to enter from a keyboard and it is made to make a user attest in this way Users such as a beginner unfamiliar to operation of a keyboard a child a woman and an old man or the user who has an obstacle although a keyboard is operated is difficult to access a server simply and promptly and to carry out attestation of the person himself/herself.

[0006]

A character image is displayed on a screen and the program which operates the character as a user interface is one of the programs started by the personal computer. For example there is a program which tells a user about action about the notice of a user of the arrival of the following operating procedure a schedule and mail warning etc. through the character. notifying a user of information via such a character -- a user -- a FRIENDLY interface can be built.

[0007]

However since these characters are displayed only in the screen of a computer there is few sense of closeness.

[0008]

this invention is made in view of such a situation and can attest a user simply and promptly -- further -- more -- a user -- a FRIENDLY user interface is built.

[0009]

[Means for Solving the Problem]

An object which has a transmission section which an information processing system concerning this invention holds user identification information which identifies a user and does wireless transmission of the user identification information concerned. It has a receive section which does radio receiving of an information processor which performs data processing and the user identification information transmitted from the above-mentioned object. Have a receiving set of card shape attached enabling free wearing to the above-mentioned information processor and the above-mentioned information processor. The above-mentioned user identification information which the above-mentioned object holds via a receiving set of the above-mentioned card shape is read. Attest read user identification information and access is made possible at an attestation user's data. While displaying a picture corresponding to appearance of the above-mentioned object on an indicator a program which accesses data of the above-mentioned attestation user who made the picture concerned a user interface is started.

[0010]

A memory which memorizes user identification information which identifies a user who an object concerning this invention is an object used when using an information

processor and owns Have the above-mentioned user identification information with a transmission section for carrying out wireless transmission and the above-mentioned user identification information. It is read by the above-mentioned information processor and the information processor concerned. The user identification information concerned is read. Read user identification information is attested. Access is made possible at an attestation user's data and a picture as which the above-mentioned information processor displays it as a user interface after the appearance reads user identification information is supported.

[0011]

A receiving set of card shape concerning this invention is a receiving set of card shape attached enabling free wearing to an information processor which performs data processing. Having with a receive section for carrying out radio receiving of the user identification information concerned from an object holding user identification information, the above-mentioned receive section transmits the above-mentioned user identification information read in the above-mentioned object to the above-mentioned information processor.

[0012]

A program concerning this invention is a program started with an information processor with which a receiving set of card shape which carries out radio receiving of the user identification information transmitted from an object holding user identification information which identifies a user was attached. The above-mentioned user identification information which the above-mentioned object holds via a receiving set of the above-mentioned card shape is read. Attest read user identification information and access is made possible at an attestation user's data. While displaying a picture corresponding to appearance of the above-mentioned object on an indicator, the picture concerned is accessed at the above-mentioned attestation user's data based on an user datum into which it was inputted as a user interface.

[0013]

[Embodiment of the Invention]

System configuration

(Entire configuration)

Drawing 1 expresses the example of composition of the information processing system which applied this invention.

[0014]

In the information processing system which applied this invention, transfer of information is performed between each terminal and a server via the Internet 1.

[0015]

LAN (Local Area Network) 21 of a certain home 3 is connected to the Internet 1 via Internet Service Provider (ISP) 2.

[0016]

The electronic equipment which exists in the room 31-33 is connected to LAN 21. In

the case of this example the personal computer (PC) 22 is connected to LAN21 in the room 31 and it is a character doll (***** character doll 161 (doll as shown in drawing 4)) in the personal computer 22. it mentions later for details — and — selling — the ** character doll 181 (doll as shown in drawing 5.) it mentions later for details. from — the detection card 23 (it mentions later for details.) of the card shape which detects the information by which infrared dispatch was carried out is connected. In the room 32 the television receiver (TV) 24 is connected to LAN21 and the detection card 25 of the card shape which detects the information by which infrared dispatch was carried out from the above-mentioned character doll is connected to the television receiver 24. In the room 33 the personal computer 26 is connected to LAN21 and the detection card 27 of the card shape which detects the information by which infrared dispatch was carried out from a character doll is connected to the personal computer 26.

[0017]

LAN21 is constituted by a user or radio. When constituted by radio IEEE (Institute of Electrical and Electronic Engineers) 802.11 or Bluetooth (Blue Tooth) can be used. In the case of a cable the method specified by USB (Universal Serial Bus) and others can be used.

[0018]

LAN51 of the place of work 5 is connected to the Internet 1 via ISP4. The personal computer 52 is connected to LAN51 and the detection card 53 of the card shape which detects further the information by which infrared dispatch was carried out from a character doll is connected to the personal computer 52.

[0019]

The contents server 6 which sells and provides the contents data corresponding to the ** character doll 181 (drawing 5) is connected to the Internet 1. The contents server 7 connected to the Internet 1 provides the contents data corresponding to the ***** character doll 161 (drawing 4). The license server 8 connected to the Internet 1 provides the license corresponding to the contents supplied by the contents server 7.

[0020]

The ** character (trademark) service server 9 is connected to the Internet 1. This ** character service server 9 provides the ***** character doll 161 and various kinds of services sell and concerning the ** character doll 181.

[0021]

The ** character database 10 which memorizes various kinds of information about a ** character is connected to the ** character service server 9. The private authentication server 11 which performs authenticating processing to the ***** character doll 161 and the public authentication server 12 which sells and performs authenticating processing to the ** character doll 181 are connected to the ** character service server 9 and also. The fee collection server 13 which performs various kinds of accounting is also connected. It can also unite with the ** character

service server 9 one or more of the ** character database 10the private authentication server 11the public authentication server 12and the fee collection servers 13 if needed.

[0022]

Furthermore in the system of drawing 1 it is made as [connect / the portable telephone 61 / to the Internet 1 / via the nearby base station 15].

[0023]

(Composition of a ** character service server)

The ** character service server 9 is constitutedfor exampleas shown in drawing 2.

[0024]

In drawing 2 CPU(CentralProcessing Unit) 121Various kinds of processings are performed according to the program memorized by ROM(Read Only Memory) 122 or the program loaded to RAM(Random Access Memory) 123 from the storage parts store 128. To RAM123CPU121 performs various kinds of processings againand also required data etc. are memorized suitably.

[0025]

CPU121ROM122and RAM123 are mutually connected via the bus 124. The input/output interface 125 is also connected to this bus 124 again.

[0026]

The input part 126CRT (Cathode Ray Tube) which become the input/output interface 125 from a keyboarda mouseetc.The display which consists of LCD (Liquid Crystal display) etc. (indicator)And the communications department 129 which comprises the storage parts store 128a modema terminal adopteretc. which comprise the outputting part 127 which consists of loudspeakers etc.a hard disketc. is connected. The communications department 129 performs the communications processing through the network containing the Internet 1.

[0027]

The drive 130 is connected to the input/output interface 125 again if neededIt is suitably equipped with the magnetic disk 141the optical disc 142the magneto-optical disc 143or the semiconductor memory 144and the computer program read from them is installed in the storage parts store 128 if needed.

[0028]

(Composition of a personal computer)

The personal computer 22 is constitutedfor exampleas shown in drawing 3. The fundamental composition is the same as that of the ** character service server 9 in drawing 2. That isCPU221 of the personal computer 22 – the communications department 229 have the same function fundamentally with CPU121 of the ** character service server 9 of drawing 2 – the communications department 129.

[0029]

The drive 231 is connected to the input/output interface 225 if neededWhen equipped with the magnetic disk 251the optical disc 252the magneto-optical disc 253or the

semiconductor memory 254the read computer program is installed in the storage parts store 228 if needed.

[0030]

The memory card slot 230 is connected to the input/output interface 225 of the personal computer 22 of drawing 3. The ***** character doll 161 and the detection card 23 of card shape which sells and performs infrared ray communication between the ** character dolls 181 are connected to the memory card slot 230. The detection card 23 contains the infrared transmission and reception section 241. The infrared transmission and reception section 241 has the ***** character doll 161 and the function to sell and to perform reading/writing for the inside information of the ** character doll 181 by non-contact using infrared ray communication.

[0031]

(***** character doll and selling composition of a ** character doll)

It sells and is a small lightweight doll type object of the ***** character doll 161 (drawing 4) and the grade (for example size which is about 3-4 cm) which the ** character doll 181 (drawing 5) can carry by human being's hand respectively or with which it can equip as a key case. The ***** character doll 161 is an object used in order to attest a user individual. It sells and the ** character doll 181 is an object used in order to perform attestation of access to a server without specifying a user when purchasing contents data for example in a prepaid form.

[0032]

As shown in drawing 4 and drawing 6 IC chip 171the infrared transmission and reception section 172and the transmission button 173 are built in the ***** character doll 161.

[0033]

In the case of the ***** character doll 161to this IC chip 171. As shown in drawing 7 ** character ID as ** character doll identification information for identifying the user ID and its ***** character doll 161 as user identification information which identifies the user holding the ***** character doll 161 is memorized. User ID can also be used also [ID / which is ID for specifying the character doll / ** character].

[0034]

The transmission button 173 is a button pushed by the user. IC chip 171 will modulate and send user ID and ** character ID to infrared rays from the infrared transmission and reception section 172if this transmission button 173 is pushed by the user.

[0035]

It sells and as shown in drawing 5 and drawing 8 IC chip 191the infrared transmission and reception section 192and the transmission button 193 are built in the ** character doll 181.

[0036]

It sells and as shown in drawing 8 at this IC chip 191 in the case of the ** character doll 181the service condition which specifies the conditions which use ** character

ID and contents is memorized. The refreshable number of times a refreshable term etc. are contained in this service condition in those contents for example. In order to use contents for IC chip 191 the prepaid amount corresponding to the amount of money (purchased amount) which the user paid is also memorized if needed.

[0037]

The transmission button 193 is a button pushed by the user. IC chip 191 will modulate and send user ID and ** character ID to infrared rays from the infrared transmission and reception section 192 if this transmission button 193 is pushed by the user.

[0038]

(Composition of a detection card)

The detection cards 23 (detection cards 2527 and 53 are also the same) are a memory stick (trademark) and a card shape interfacing unit of identical shape as shown in drawing 9. The slot for the memory cards of the personal computer 22 (or the personal computer 52 and television receiver 24 grade) is equipped with the detection card 23 and it is used for example. The transmission and reception section 23-1 which transmits and receives data with infrared ray communication systems is formed in the detection card 23 between the ***** character doll 161 and the transmission and reception section 172192 which sold and was provided in the ** character doll 181. The detection card 23 reads the information shown in the ***** character doll 161 drawing 7 and drawing 8 which these dolls will hold inside if it sells and information is disseminated by infrared rays from the ** character doll 181 and transmits it to the personal computer 22.

[0039]

(Authentication method in an information processing system)

In the above information processing systems (information service system) in order to carry out attestation (its own attestation) of the person himself/herself to a server or a personal computer each user purchases the ***** character doll 161 beforehand via the Internet 1. For example it sells and the ** character doll 181 is beforehand purchased via the Internet 1 to download contents such as music and an image from a server. It reaches ***** character doll 161 and sells and the detection card 23 is also attached and the ** character doll 181 is sold. That is as shown in drawing 10 by two it is considered as one goods package-ized and is sold. At this time the surface of the detection card 23 may be reached ***** character doll 161 it may sell and the same character image as the ** character doll 181 may be indicated.

[0040]

A user carries the purchased ***** character doll 161 for example as a key case or a strap of a cellular phone and makes his own personal computer 22 equip with the detection card 23.

[0041]

and -- a user accesses a server and a personal computer -- the person himself/herself -- a keyboard being used and neither a user name nor a password

being enteredbutwhen attestingmaking the ***** character doll 161 or the sale POKYARA doll 181 approach the detection card 23and pushing a transmission button -- between a server or personal computers -- the person himself/herself -- attestation and attestation to pay are performed.

[0042]

It may reach ***** character doll 161 and may selland as long as the communication method between the ** character doll 181 and the detection card 23 is not only infrared ray communication systems but a radio-transmission-and-reception methodit may be what kind of method. Howeversince intuitive feeling and the feeling of a check are acquired in order to operate it by turning to the apparatus which wants to operate a transmission section since the directivity of a communication range is sharp in the case of an infrared systemhe can understand operation easily also by a person poor at a control device.

[0043]

Various kinds of procedure

Hereaftervarious kinds of processings in this information processing system are explained concretely.

[0044]

(The acquisition flow of a best-friend POKYARA doll: Users' processing)

With reference to the flow chart of drawing 11processing of the users at the time of acquiring the ***** character doll 161 is explained.

[0045]

The user of the personal computer 22 operates the input part 226and orders it access to the ** character service server 9. When these instructions are acquired from the input part 226CPU221 controls the communications department 229 and is made to access the ** character service server 9 via LAN21ISP2and the Internet 1 in Step S1. The ** character service server 9 provides GUI (Graphical User Interface) for inputting User Information to the accessed personal computer 22 via the Internet 1 (Step S21 of drawing 13 mentioned later). Thena user operates the input part 226 and inputs User Informationsuch as his own namean addressa date of birthsexa telephone numbera fax numbera mail addressa credit card numberand a bank account number. In Step S2CPU221 transmits inputted User Information to the ** character service server 9 via the Internet 1 from the communications department 229. The communication between the personal computer 22 (other terminals are the same) and the ** character service server 9 is enciphered if needed.

[0046]

At this timethe ** character service server 9 transmits the candidate (list) of a ***** character doll to the personal computer 22 (Step S23 of drawing 13). Thenin Step S3this will be outputted to the indicator of the outputting part 227and CPU221 will display itif the candidate of the ***** character doll transmitted from the ** character service server 9 is received via the communications department 229.

Thereby the candidate of a ***** character doll as shown in drawing 12 is displayed for example. Six kinds of ***** character dolls of A thru/or F are shown in drawing 12. The ***** character doll 161 shown in drawing 4 supports drawing 12 F of these.

[0047]

Out of the candidate of the displayed ***** character doll a user operates the input part 226 and specifies what is used as its own ***** character doll. CPU221 receives selection of this ***** character doll in step S4.

[0048]

In Step S5 CPU221 transmits the selection information of the ***** character doll received by processing of step S4 to the ** character service server 9.

[0049]

The ** character service server 9 will transmit the computer program for the ** character service containing the data of the ***** character corresponding to the selected ***** character doll if the selection information from the personal computer 22 is received (Step S26 of drawing 13).

[0050]

In Step S6 CPU221 of the personal computer 22 receives the computer program transmitted from the ** character service server 9 and memorizes it to the storage parts store 228. the ***** character (the ***** character doll which exists really is received.) corresponding to a ***** character doll in this program it is a virtual doll by which an animation display is carried out — the following and this — a character — calling — data (data of a ***** character) required for making it display on the indicator of the outputting part 227 is contained.

[0051]

The character of this ***** character is expressed by the same picture as a corresponding ***** character doll. If it puts in another way the ***** character doll will have the same shape (a color etc. are included) as the ***** character as a virtual doll displayed on the indicator of the outputting part 227.

[0052]

A user installs in other apparatus using the service which the ** character service server 9 provides for the program received by processing of Step S6. In the case of the example of drawing 1 this program is installed in the television receiver 24 and the personal computer 26. It is installed also in the personal computer 52 of the place of work 5.

[0053]

The television receiver 24 is formed by the applied part which equips with the semiconductor memory represented by the memory stick (trademark) for example and a user For example with the personal computer 22 that program can be memorized to a memory stick and this program can be installed to the television receiver 24 by equipping the television receiver 24 with this memory stick.

[0054]

Thensince the ** character service server 9 delivers the ***** character doll which the user chose by processing of step S4 (Step S27 of drawing 13) a user receives the doll delivered from the ** character service server 9 in Step S8.

[0055]

(The acquisition flow of a best-friend POKYARA doll: Processing by the side of a server)

Belowwith reference to the flow chart of drawing 13 the processing by the side of the server at the time of acquiring the ***** character doll 161 is explained.

[0056]

The ** character service server 9 performs processing as shown in the flow chart of drawing 13 corresponding to processing of the personal computer 22 of the above drawing 11.

[0057]

In Step S21CPU121 of the ** character service server 9When the user of the personal computer 22 has accessed via the Internet 1If this access is received via the communications department 129the personal computer 22 is provided with GUI for inputting User Information to that personal computer 22 via the Internet 1.

[0058]

As mentioned abovebased on this GUIa user transmits User Information (Step S2 of drawing 11). ThenCPU121 of the ** character service server 9 makes this supply and register into the ** character database 10 via the communications department 129 in Step S22when User Information from the personal computer 22 is received. TherebyUser Information is registered into the ** character database 10.

[0059]

Nextin Step S23CPU121 reads the candidate of a ***** character doll from the storage parts store 128and transmits to the personal computer 22. Therebyas mentioned abovethe candidate of a ***** character doll as shown in drawing 12 is transmitted to the personal computer 22.

[0060]

As mentioned abovea user chooses one ***** character doll from the candidates of a ***** character doll who transmittedand the selection information is transmitted (Step S5 of drawing 11).

[0061]

Thenin Step S25CPU121 assigns the user ID as identification information for identifying a user to a user. CPU121 assigns ** character ID to a ***** character doll with the selected userand is made to register it into the ** character database 10 as ** character information corresponding to User Information. The flag (***** character flag) showing whether it is that its ** character besides ** character ID is a ***** character or the parameter which that ** character has is contained in this ** character information. This parameter expresses the dress which that *****

character wears or the function which that ***** character has. It may be made to include a ***** character flag in ** character ID assigned to the ***** character doll 161.

[0062]

Next in Step S26 CPU121 reads a program for a user to receive ** character service from the storage parts store 128 and transmits to the personal computer 22 via the Internet 1. At this time CPU121 includes ** character information required to display user ID and the character of that ***** character in a program and transmits. The data of the ** character which becomes the origin of the picture containing various kinds of parameters besides ** character ID is contained in this ** character information. This program is received by the personal computer 22 (Step S6 of drawing 11).

[0063]

And in Step S27 CPU121 performs processing which delivers the ***** character doll corresponding to the selection information received by processing of Step S24. Specifically CPU121 outputs from the information (** character ID) which specifies a ***** character doll with the selected user and the printer which constitutes the outputting part 127 for the user's address, a name, etc. The administrator of the ** character service server 9 performs procedure which delivers a predetermined ***** character doll to a user based on the output from this printer.

[0064]

Next in Step S28 CPU121 performs accounting corresponding to the remuneration to the ***** character doll distributed to the user.

[0065]

Specifically CPU121 requires settlement of the price corresponding to the remuneration of a ***** character doll from the fee collection server 13 based on the credit card number contained in User Information. Or CPU121 requires again pulling down the remuneration from the bank account number contained in User Information from the fee collection server 13. The fee collection server 13 requires pulling-down processing of matched-pairs value of a ***** character doll from that user's credit card company or bank based on this demand.

[0066]

In the above explanation after accessing the ** character service server 9 from the personal computer 22 and transmitting required User Information beforehand received delivery of the ***** character doll but. When putting in another way after registering as a user beforehand received delivery of the ***** character doll but. After a user purchases beforehand the ***** character doll with which it goes to the store managed by the administrator of the ** character service server 9 directly and only ** character ID is memorized it is also possible for it to be made to register as a user via a network. At the store a user may do the direct entry of User Information.

[0067]

The ***** character doll 161 purchased as mentioned above functions as a user's agent henceforth.

[0068]

as [show / by the store / to drawing 5 / in addition to ***** character doll 161] – it sells and the ** character doll 181 is also sold. A user answers necessity and can do this thing [selling and purchasing the ** character doll 181 at various stores]. this — it sells and the ** character doll 181 also contains IC chip 191 in the inside. IC chip 191 has memorized the information corresponding to the function which is sold and the ** character doll 181 has. For exampleas information memorized by IC chip 191 in the case of having a function in which sell and the ** character doll 181 provides contents dataas shown in drawing 8the service condition which specifies the conditions which use ** character ID and contents is memorized. The refreshable number of timesa refreshable termetc. are contained in this service condition in those contentsfor example. In order to use contents for IC chip 191the prepaid amount corresponding to the amount of money (purchased amount) which the user paid is also memorized if needed.

[0069]

(Flow at the time of use of a best friend POKYARA doll and a sale POKYARA doll)
Nextsuch a ***** character doll 161 and the contents of the processing [sell and] at the time of use of the ** character doll 181 are explained.

[0070]

a user — the ***** character doll 161 — or it sellingand the ** character doll 181 being acquiredandFor examplewhen receiving offer of contentswhile making the detection card 23 connected to the ***** character doll 161 or the apparatus which sells and uses the ** character doll 181 approachthe transmission and reception section 172192 is turned to the detection card 23and the manual operation button 173193 is pushed. For examplewhen using the personal computer 22a useras opposed to the detection card 23 connected corresponding to the personal computer 22 — the ***** character doll 161 — or while selling and making the ** character doll 181 approachthe transmission and reception section 172192 is turned to the detection card 23and the manual operation button 173193 is pushed.

[0071]

In this casethe personal computer 22 performs processing shown in the flow chart of drawing 14drawing 15drawing 16drawing 17and drawing 18.

[0072]

In Step S41CPU221 of the personal computer 22 judges whether information was disseminated from the ** character doll to the detection card 23. When information is not disseminated from a ** character dollit stands by until it is sent.

[0073]

If information is disseminated from a ** character dollthe information memorized by the IC chip 171 (or 191) will be read by the infrared transmission and reception

section 241 and will be transmitted to CPU221 via the memory card slot 230. Then CPU221 carries out repeat execution of the processing of Step S41 until this information is read.

[0074]

When [by which information was disseminated to the detection card 23 from the ** character doll] judgment progresses to Step S42 and CPU221 reads the information memorized by IC chip 171 (or 191) of the ** character doll. a ** character doll — the ***** character doll 161 — or though it sells and is any of the ** character doll 181 ** character ID is memorized by the IC chip 171 or 191 (drawing 7 and drawing 8). CPU221 controls the communications department 229 and makes read ** character ID transmit to the ** character service server 9 in Step S43. ID transmitted at this time is used for identifying a user (** character doll) in the ** character service server 9. That is when user ID is memorized it may be made to transmit its since ** character ID at this time is used as ID for identifying a user. It may be made to transmit both ** character ID and user ID.

[0075]

That is read ** character ID is transmitted to the ** character service server 9 via LAN21ISP2 and the Internet 1. If it puts in another way and the transmission sections 172 and 192 will be turned in the direction and the transmission button 173193 will be pushed while a user makes the ***** character doll 161 or the sale POKYARA doll 181 approach the detection card 23 CPU21 performs login processing (connection processing) to the ** character service server 9 in Step S43.

[0076]

Therefore if a user makes a ** character doll approach to the detection card 23 and the transmission buttons 173 and 93 are pushed while becoming possible to the ** character service server 9 to access simply without inputting ID using a keyboard etc. generating of an input mistake is prevented. Therefore for example it becomes possible [a child unfamiliar to operation of a keyboard a woman an old man etc.] to access.

[0077]

Then the ** character service server 9 will judge whether the ** character ID is registered into the ** character database 10 if ** character ID is received. It sells to the ** character database 10 not only in ID of a ***** character and ID of the ** character is also registered into it. When read ** character ID is registered the ** character service server 9 reads bag information from the ** character database 10 and transmits.

[0078]

As shown in drawing 19 character information mail information schedule information favorite information work information high recommendation information the information to look for contents information and a ***** character flag are contained in the bag information on a ***** character for example. It sells and as shown in

drawing 20 character information contents information and a ***** character flag are contained in the bag information on a ** character.

[0079]

As for these bag information the ** character information on the ***** character stored in the ** character database 10 or the thing which sold and was contained in the ** character information on a ** character is transmitted as bag information. A ***** character or the license information which sells and contains a server address license ID an encryption key etc. in the bag information on a ** character further if needed can be included.

[0080]

Hereas shown in drawing 21 thru/or drawing 23 User Information and ** character information are memorized by the ** character database 10 for example. A credit card number of others and a user's bank account number etc. which are the registration dates etc. which registered the name of the user ID and the user who identify a user's address a date of birth sex a telephone number a fax number a mail address and its user are recorded on User Information (drawing 21).

[0081]

It sells to ** character information with the ** character information on a ***** character (drawing 22) and there is a ** character (drawing 23) of a ** character in it.

[0082]

** character ID of the ***** character doll which the user has to the ** character information on a ***** character The character data etc. of the ** character required to display the ** character represented by user ID the ***** character flag which sell whether the ** character is a ***** character and with which it is expressed whether it is a ** character or the parameter concerning the dress of the ** character again are contained.

[0083]

As ** character information the information about various kinds of functions which a ***** character has is also registered further. In the example of drawing 22 mail information schedule information favorite information work information high recommendation information the information to look for etc. are memorized. The mail with which mail information has been transmitted to the addressing to a user until now or the mail which the user transmitted until now is memorized.

[0084]

The schedule of the user's present and the past and the memo which the user inputted are recorded on schedule information. The information on various kinds of events which a ** character performs etc. are recorded on this schedule.

[0085]

URL etc. of the homepage to which the user added the bookmark are memorized by favorite information.

[0086]

When the user registers beforehand about the terminal (hardware) which he holds the information about the service which can win popularity is registered into work information. The data which the user deposited temporarily is also memorized in this work information.

[0087]

The recommended contents collected themselves are registered into high recommendation information because a ***** character analyzes the user's thinking.

[0088]

The information which it was ordered sell and concerning a ** character is recorded [a search engine that a user searches beforehand and] on the information to look for.

[0089]

The current position which expresses the position as which the character of the ***** character is actually displayed on the predetermined device on a network as ** character information is registered. Thereby what the character of a ***** character is simultaneously displayed in two or more positions in the device on a network is prevented (the exclusivity of a display is realized). If it puts in another way it will be controlled that other users steal a user's information using other ***** character dolls which become a true user's ***** character doll 161 completely. That is the ** character service server 9 performs error handling when ***** character ID has been transmitted from other than a current position. As a result only the character of one ***** character is displayed on the device on a network.

[0090]

It becomes possible from two or more devices to prevent the inconsistency of the data based on access to the ** character service server 9 being performed simultaneously. If it puts in another way it will become possible for one person's ** character to make exclusive access understood intuitively to a user by making two or more devices go back and forth.

[0091]

The contents information which the user acquired license information required to use the contents etc. are further recorded on ** character information. The content ID which identifies contents access information required in order to access the contents etc. are included in contents information. The information of the address of a license server accessed when acquiring license ID which identifies a license the encryption key which decodes the contents enciphered and a license is recorded on license information.

[0092]

It sells and content use information besides ** character ID a ***** character flag character information contents information and license information is included in the ** character information on a ** character (drawing 23).

[0093]

Although ** character ID was transmitted to the ** character service server 9 at

Step S43when the ** character ID is not registered into the ** character database 10the ** character service server 9 transmits error information.

[0094]

Thenin Step S44CPU221 of the personal computer 22 judges whether error information was received from the ** character service server 9. At Step S44when judged with error information having been receivedit progresses to Step S45 and CPU221 performs error handling. That isin this casesince ** character ID is not registered into the ** character database 10the user can use the service based on a ** character.

[0095]

In Step S44when judged with error information not being receivedit progresses to Step S46 and CPU221 receives the bag information transmitted from the ** character service server 9. In Step S47CPU221 transmits ** character arrival information to the ** character service server 9. This ** character arrival information is received by the ** character service server 9.

[0096]

In Step S48CPU221 judges whether it is that the ***** character doll 161 disseminated information to the detection card 23. That isthe ***** character flag with which it is expressed by processing of Step S43 whether it is that ** character ID which transmitted to the ** character service server 9 is ID of a ***** character is included in the bag information transmitted from the ** character service server 9. CPU221 performs decision processing of Step S48 based on this ***** character flag.

[0097]

When the ***** character doll 161 disseminates information to the detection card 23it progresses to Step S49 of drawing 15and processing about the user is performed. When judged with the ***** character doll 161 not having disseminated information to the detection card 23it progresses to Step S57 shown in drawing 16 (namelywhen judged with it selling and being the ** character doll 181).

[0098]

In Step S49 of drawing 15based on the bag information received by processing of Step S46CPU221 generates ** character image data and displays the character of a ** character on the indicator of the outputting part 227. That isthe ** character information received from the ** character service server 9 is memorized by the storage parts store 228 of the personal computer 22 by processing of Step S6 of drawing 11. CPU221 reads the character information of the ***** character in the ** character information corresponding to ** character ID contained in bag informationand the concrete value of the parameter contained in bag information is set as the parameterThe image data of a ***** character is generatedit outputs to the indicator of the outputting part 227and a ***** character (character of a virtual ***** character) is displayed. The character of this ***** character serves as a

picture corresponding to the ***** character doll 161.

[0099]

If it puts in another way the ***** character doll 161 is carrying out shape corresponding to this picture (character). Therefore the user can recognize intuitively that the character of the ***** character is a thing corresponding to the ***** character 161 when the character of the ***** character displayed on the indicator of the outputting part 227 is seen.

[0100]

Thus since the character of the ** character with same appearance is displayed as a doll the user can identify the service to be used easily.

[0101]

Although the ** character information for displaying the character of a virtual ***** character was supplied to the personal computer 22 from the ** character service server 9 it may be made to store the ** character information in the ***** character doll 161. A quicker display will be attained if it is made such.

[0102]

The ** character information received from the ** character service server 9 especially a character polygon When it receives from the ** character service server 9 it may be made to save the ** character image data containing a parameter required to display characters such as a texture and a motion to the ***** character doll 161 (or personal computer 22). In this case when it is not judged and updated whether ** character image data was updated whenever access was performed to the ** character service server 9. The already saved ** character image data is used and when updated new ** character image data is received and saved from the ** character service server 9.

[0103]

In ** character information they are the contents (the sender of an E-mail as shown in drawing 27 mentioned later and the got day (a receiving date information required for selection of mail called the title of e-mail) can be included.) of the header part of an E-mail. In this case when a user chooses the function of an E-mail access is performed to ISP2 as a mail server and the text of an E-mail downloads.

[0104]

Next in Step S50 CPU221 is displayed on the circumference of a ***** character by making into an icon the list of the functions which a ***** character has based on the bag information on the ***** character.

[0105]

Drawing 24 and drawing 25 express the display example as a result of processing of this step S49 and Step S50.

[0106]

First as shown in drawing 24 the appearance mouth 301 in which the character of a ***** character appears is displayed. And as shown in drawing 25 the picture which

the character 311 of the ***** character corresponding to the ***** character doll 161 registers from the appearance mouth 301 is displayed as animation. As mentioned above the character 311 of this ***** character serves as a picture corresponding to the ***** character doll 161.

[0107]

The icon 321-1 corresponding to the function which the character 311 (the user) of a ***** character holds thru/or 321-7 are displayed on the circumference of the character 311 of a ***** character. In the display example of drawing 25 although the number of icons is made into seven pieces the number is not limited.

[0108]

A bag is given to the character 311 and when a user clicks the bag it may be made to display the icon contained in the bag.

[0109]

Out of the icon corresponding to the function which did in this way and was displayed a user constitutes the input part 226 for example a mouse etc. are operated and he selects a predetermined icon.

[0110]

Then in Step S51 CPU221 stands by until one function is chosen. When judged with one function having been chosen it progresses to Step S52 and CPU221 performs processing corresponding to the selected function.

[0111]

For example when the icon 321-3 corresponding to e-mail is selected among seven icons CPU221 performs processing corresponding to e-mail. CPU221 controls the communications department 229 and specifically requires read-out of mail information of the ** character service server 9.

[0112]

When it is ordered the ** character service server 9 in acquisition of mail information from the personal computer 22 Or for every fixed time ISP2 (it has a function as a mail server) is accessed via the Internet 1 the user's mail information is read periodically and it registers with the ** character database 10. The ** character service server 9 reads the mail information registered into the ** character database 10 and transmits to the personal computer 22 via ISP2 and LAN21 from the Internet 1.

[0113]

CPU221 displays the picture corresponding to the read mail information on the indicator of the outputting part 227.

[0114]

Drawing 26 expresses the display example in this case. In the display example of drawing 26 the blow off 341 is displayed on the upper left of the character 311 of a ***** character and the message of "whether there are four new mails today" is displayed in it. The user can know that four new mails have been to themselves from this display.

[0115]

If it is ordered read-out of e-mail because a user operates the mouse of the input part 226 as shown in drawing 27 CPU221 will be read from ISP2 and will display on the window 351 the title information of the mail currently held in the ** character database 10 for example. The user can display the contents of the mail further by choosing predetermined mail out of the mail which did in this way and was displayed.

[0116]

When a user selects the icon 321-5 of a scheduler among seven icons CPU221 The ** character service server 9 is accessed the schedule information of the user of the ***** character is read from the ** character database 10 and it demands to transmit to the personal computer 22.

[0117]

This will be outputted to the indicator of the outputting part 227 and CPU221 of the personal computer 22 will display it if this schedule information is acquired. Thus as shown in drawing 28 the schedule of the user of the character 311 of a ***** character is displayed on the window 361 for example.

[0118]

If a date predetermined [of the schedules currently displayed on the window 361] is clicked because a user operates a mouse the schedule of the day will be displayed on the window 371 for example as shown in drawing 29.

[0119]

The schedule on March 1 is displayed in this display example.

[0120]

When a user selects the icon 321-2 of spare clothing from seven icons CPU221 It is made to display on the window 381 as the ** character service server 9 is accessed and GUI required to perform the spare clothing of the character 311 of a ***** character is acquired for example it is shown in drawing 30. The user can make the shirt and trousers of the character 311 of a ***** character changed into a favorite thing by clicking the predetermined button of this window 381. The dress then worn is memorized as a parameter. Therefore it is controlled that a user gets bored to the character 311 of the ***** character as his own other self.

[0121]

In the processing corresponding to the function in which Step S52 was chosen as mentioned above various kinds of processings will be performed corresponding to a user's selection. This processing is explained further in full detail behind.

[0122]

Next in Step S53 CPU221 judges whether the end of the processing about a ** character was received. When terminating the processing about a ** character a user is operating the input part 226 for example and orders it the end of processing.

[0123]

In Step S53 when judged with the end of processing of a ** character not being

directed processing returns to Step S51 and repeat execution of the processing after it is carried out.

[0124]

When judged with the end of processing of a ** character having been directed from the user in Step S54 CPU221 transmits the change history of bag information to the ** character service server 9. Therefore this history has a function which notifies the ** character service server 9 that the end of processing of a ** character was directed from the user. This history is registered in the ** character service server 9.

[0125]

A schedule a bookmark character information (a hairstyle a dress etc.) a user's thinking information etc. which were updated are included in a history. When these histories are directly written in the ** character service server 9 ** character service server 9 self will perform the update process.

[0126]

In Step S55 CPU221 displays on the indicator of the outputting part 227 the picture to which the character 311 of a ***** character returns.

[0127]

Drawing 31 and drawing 32 express the display example in this case.

[0128]

In the display example of drawing 31 it blows off at the upper left of the character 311 of a ***** character 391 is displayed and the message of "whether to return soon in it" is displayed in it. Then as shown in drawing 32 the exit 401 is displayed and the animation display of the picture to which the character 311 of a ***** character returns from the exit 401 is carried out.

[0129]

By performing such a display the user can recognize intuitively that the processing about a ***** character was completed. That is when the ***** character doll 161 is removed from the detection card 23 CPU21 performs logout processing of which connection with the ** character service server 9 is canceled in Step S55.

[0130]

As mentioned above since the display is ended when the same ** character (character) as a doll is displayed at the time of the start of service and service is ended the user can grasp login and logout easily. As a result since it cannot input in the period which mistook the operation which a user needs in order to receive service and service cannot be used what takes will be controlled if the device is out of order.

[0131]

On the other hand in Step S57 of drawing 16 when judged with the ***** character doll 161 not having disseminated information to the detection card 23 processing is carried out (when judged with it selling and being the ** character doll 181).

[0132]

In Step S57 CPU221 of the personal computer 22 It sells to the indicator which is

contained in the bag information received by processing of Step S46 and which sells generates ** character image data based on the ** character information on a ** character and constitutes the outputting part 227 and the character (selling virtual doll of the ** character doll 181) of a ** character is displayed. That is it sells to the ** character database 10 and the ** character information and contents image data of the ** character are registered into it and this ** character information and contents image data include in certification information and are sent from the ** character service server 9. It is considered as this picture (picture which a user sells and can recognize intuitively that it is a virtual doll corresponding to the ** character doll 181) that sells also sells the character of a ** character and has the almost same shape as the ** character doll 181.

[0133]

CPU221 extracts the contents image data (content use information) contained in the bag information received by processing of Step S46 generates a contents picture based on the contents image data and is made to display it on the indicator of the outputting part 227 in Step S58. By this the contents picture corresponding to the contents which the user purchased and which sell and are connected with the ** character doll 181 will be displayed on the outputting part 227. Explanation of the contents connected a message like "click an access button to download this music" etc. are contained in this contents picture for example.

[0134]

Then a user operates the access button in the displayed contents picture with the mouse etc. which constitute the input part 226 when acquiring contents.

[0135]

In Step S59 CPU221 stands by until it is ordered it in access to a contents server (an access button operates it) When it judges that it was ordered by access to a contents server it progresses to Step S60 and CPU221 reads the service condition (drawing 8) memorized by IC chip 191. And in Step S61 CPU221 judges whether the service condition is fulfilled. The expiration date of contents is contained in this service condition for example. CPU221 is comparing the present time which the timer to build in clocks with the expiration date to which it is specified by the service condition and judges whether the service condition is fulfilled. As a service condition when the number of times of maximum usable and prepaid amount are specified it is judged whether the value is "0."

[0136]

When judged with the service condition being fulfilled in Step S61. (For example when the present time is judged as it being a front [expiration date] and the number of times of maximum usable and prepaid amount not being "0" it progresses to Step S62 and CPU221) Based on the access destination information memorized by IC chip 191 a contents server is accessed and transmission of contents data is required.

Thereby transmission of contents data is required of the contents server 6 shown in

drawing 1for example.

[0137]

Based on this demandthe contents server 6 transmits contents data via the Internet 1. Thenin Step S63CPU221 of the personal computer 22 receives the contents data transmitted from the contents server 6 via the communications department 229. This contents data is supplied to the storage parts store 228and is memorized.

[0138]

In Step S64CPU221 receives by processing of Step S63decodes the memorized contents dataand performs processing to output. That isthe contents data transmitted from the contents server 6 is encipheredand CPU221 decodes this contents data enciphered using the encryption key contained in the license information acquired from the ** character service server 9. And CPU221 outputs the contents data produced by decoding via the outputting part 227.

[0139]

It is also possible to change the encryption key of enciphered contentwhenever it reproduces contents (or copy)since there is a possibility that it may be stolen by the 3rd person when enciphered content and an encryption key are transmitted via the Internet 1.

[0140]

In Step S65 of drawing 17CPU221When it judges whether the end of the contents output was inputted from the input part 226 (were ordered by the user or not?) and is not ordered in the end of the contents outputit is judged whether it progressed and sold to Step S66and the ** character doll 181 was removed from the detection card 23. This decision processing is performed like processing of Step S53 of drawing 15.

[0141]

In Step S66when judged with the ** character doll 181 not having separated from the detection card 23it returns to Step S65 and repeat execution of the processing after it is carried out.

[0142]

When it judges that it was ordered by the end of the contents output by processing of Step S65or when it is judged with having sold and the ** character doll 181 having separated from the detection card 23 in Step S66it progresses to Step S67 and CPU221 ends a contents output.

[0143]

And CPU221 controls the infrared transmission and reception section 241and makes the service condition which sells and is memorized by IC chip 191 of the ** character doll 181 update in Step S68. For examplewhen the number of times (number of times of refreshable) of maximum usable is specified in the service conditionthe decrement of the value is carried out only 1. For examplewhen the number of times of maximum usable is specified as 20 etc. times etc.the decrement only of 1 is carried outand when the value is set to "0"it becomes impossible to use the value (reproduction).

[0144]

Next in Step S69 CPU221 When the prepaid amount which sells and is memorized by IC chip 191 in the ** character doll 181 is a system which is subtracted whenever it uses contents the prepaid amount is updated so that only a predetermined amount of money may be subtracted (amount of money corresponding to one reproduction). Processing of Steps S68 and S69 is good only also as one side.

[0145]

In Step S70 CPU221 displays on the indicator of the outputting part 227 the picture to which it sells to and the character of a ** character returns like the case in Step S55 of drawing 15. Thereby a user sells and he is having removed the ** character doll 181 from the detection card 23 or having ordered it the end of the contents output and it becomes possible to recognize intuitively that the contents output was ended.

[0146]

When judged with the service condition not being fulfilled in Step S61 (when the expiration date has passed and the use count has reached the number of times of maximum usable) Or when prepaid amount is "0" it progresses to Step S71 shown in drawing 18 and CPU221 generates a predetermined message and is made to display it on the indicator of the outputting part 227. The case where this reaches the number of times by which reproduction frequency is permitted for example contents were reproduced N times. In order to use contents, the payment of a new amount of money is required. A message which is displayed. A user operates the input part 226 and orders it renewal of a service condition to use contents further based on the display of this message.

[0147]

Then in Step S72 CPU221 When it judges whether the demand of renewal of a service condition was made and is judged with the demand of renewal of a service condition having been made in Step S73 CPU221 Based on the access destination information (drawing 20) included in the contents information of bag information the contents server 6 is accessed via the Internet 1. In Step S74 CPU221 requires the number of times of maximum usable as a service condition and renewal of prepaid amount from the contents server 6. The contents server 6 transmits update information to the personal computer 22 when it is reported from the ** character service server 9 based on this demand that he is a user whom that user can settle.

[0148]

Then in Step S75 CPU221 Judge whether update information has been transmitted from the contents server 6 and when transmitted it progresses to Step S76 the update information transmitted from the contents server 6 is received the data is supplied to IC chip 191 via the infrared transmission and reception section 241 and the number of times of maximum usable and prepaid amount are made to update.

[0149]

Thus a user is requiring renewal of the number of times of maximum usable and prepaid

amount and becomes possible [the thing / selling and using contents any number of times using the ** character doll 181].

[0150]

When renewal of prepaid amount is performed so that it may mention later based on the demand from the contents server 6 the ** character service server 9 performs accounting to a user.

[0151]

In Step S75 when judged with update information not being transmitted it progresses to Step S77 and error handling is performed.

[0152]

Namely the user who sells and is using the ** character doll 181 for the Reasons of the insufficient funds of a bank account etc. When judged with his being a user who cannot settle prepaid amount by the ** character service server 9 the contents server 6 notifies an error message to the personal computer 22. In this case since update information is not sent CPU221 performs error handling. Specifically CPU221 displays a message like the ability "not to use contents" on the indicator of the outputting part 227 for example.

[0153]

In Step S72 when judged with the demand of renewal of a service condition not being demanded by the user processing of Step S73 thru/or Step S77 is skipped.

[0154]

The credit card having an IC chip is made to approach the detection card 23 and it may be made to settle prepaid amount from the credit card.

[0155]

[Effect of the Invention]

In this invention an information processor reads the user identification information which an object holds via the receiving set of card shape. While attesting the read user identification information making access possible at an attestation user's data and displaying the picture corresponding to the appearance of an object on an indicator the program which accesses the data of the attestation user who made the picture concerned the user interface is started.

[0156]

in such this invention a user can be attested simply and promptly -- further -- more -- a user -- the FRIENDLY user interface is realized.

[Brief Description of the Drawings]

[Drawing 1] It is a block diagram showing the example of composition of the information processing system which applied this invention.

[Drawing 2] It is a block diagram showing the example of composition of the ** character service server of drawing 1.

[Drawing 3] It is a block diagram showing the example of composition of the personal computer of drawing 1.

[Drawing 4]It is a figure showing the example of a ***** character doll.

[Drawing 5]It is a figure in which selling to and showing the example of a ** character doll.

[Drawing 6]It is a block diagram showing the composition inside a ***** character doll.

[Drawing 7]It is a figure explaining the information memorized by the IC chip of drawing 6.

[Drawing 8]It is a figure showing the example of the information which sells and is memorized by the IC chip of the ** character doll.

[Drawing 9]It is a figure showing the appearance shape of a detection card.

[Drawing 10]It is a figure showing the sales package of a ***** character doll and a detection card.

[Drawing 11]It is a flow chart with which a user explains the processing which acquires a ***** character doll.

[Drawing 12]It is a figure showing the example of a ***** character doll.

[Drawing 13]It is a flow chart explaining the ***** character sales processing of the ** character service server of drawing 1.

[Drawing 14]It is a flow chart explaining ** character processing of the personal computer of drawing 1.

[Drawing 15]It is a flow chart explaining ** character processing of the personal computer of drawing 1.

[Drawing 16]It is a flow chart explaining ** character processing of the personal computer of drawing 1.

[Drawing 17]It is a flow chart explaining ** character processing of the personal computer of drawing 1.

[Drawing 18]It is a flow chart explaining ** character processing of the personal computer of drawing 1.

[Drawing 19]It is a figure explaining the bag information on a ***** character.

[Drawing 20]It is a figure which sells and illustrates the bag information on a ** character.

[Drawing 21]It is a figure showing the example of User Information registered into the ** character database of drawing 1.

[Drawing 22]It is a figure showing the example of the ** character information on the ***** character registered into the ** character database of drawing 1.

[Drawing 23]It is the figure which is registered into the ** character database of drawing 1 and in which selling to and showing the example of the ** character information on a ** character.

[Drawing 24]It is a figure showing the display example of a ** character.

[Drawing 25]It is a figure showing the display example of a ** character.

[Drawing 26]It is a figure showing the display example of a ** character when a mail function is chosen.

[Drawing 27]It is a figure showing other display examples of a ** character when a mail function is chosen.

[Drawing 28]It is a figure showing the display example of a ** character when a schedule function is chosen.

[Drawing 29]It is a figure showing other display examples of a ** character when a schedule function is chosen.

[Drawing 30]It is a figure showing the display example of a ** character when a spare clothing function is chosen.

[Drawing 31]It is a figure showing other display examples of a ** character.

[Drawing 32]It is a figure showing other display examples of a ** character.

[Description of Notations]

1 The Internet and 6 and 7 A contents server and 8. A license server 9 ** character service server and 10. A ** character database and 11 A private authentication server 12 A public authentication server and 13 [A personal computer 53 detection cards] A fee collection server and 22 A personal computer 23 detection cards 24 television receivers 25 detection cards and 26 A personal computer 27 detection cards and 52

DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1]It is a block diagram showing the example of composition of the information processing system which applied this invention.

[Drawing 2]It is a block diagram showing the example of composition of the ** character service server of drawing 1.

[Drawing 3]It is a block diagram showing the example of composition of the personal computer of drawing 1.

[Drawing 4]It is a figure showing the example of a ***** character doll.

[Drawing 5]It is a figure in which selling to and showing the example of a ** character doll.

[Drawing 6]It is a block diagram showing the composition inside a ***** character doll.

[Drawing 7]It is a figure explaining the information memorized by the IC chip of drawing 6.

[Drawing 8]It is a figure showing the example of the information which sells and is memorized by the IC chip of the ** character doll.

[Drawing 9]It is a figure showing the appearance shape of a detection card.

[Drawing 10]It is a figure showing the sales package of a ***** character doll and a detection card.

[Drawing 11]It is a flow chart with which a user explains the processing which

acquires a ***** character doll.

[Drawing 12]It is a figure showing the example of a ***** character doll.

[Drawing 13]It is a flow chart explaining the ***** character sales processing of the ** character service server of drawing 1.

[Drawing 14]It is a flow chart explaining ** character processing of the personal computer of drawing 1.

[Drawing 15]It is a flow chart explaining ** character processing of the personal computer of drawing 1.

[Drawing 16]It is a flow chart explaining ** character processing of the personal computer of drawing 1.

[Drawing 17]It is a flow chart explaining ** character processing of the personal computer of drawing 1.

[Drawing 18]It is a flow chart explaining ** character processing of the personal computer of drawing 1.

[Drawing 19]It is a figure explaining the bag information on a ***** character.

[Drawing 20]It is a figure which sells and illustrates the bag information on a ** character.

[Drawing 21]It is a figure showing the example of User Information registered into the ** character database of drawing 1.

[Drawing 22]It is a figure showing the example of the ** character information on the ***** character registered into the ** character database of drawing 1.

[Drawing 23]It is the figure which is registered into the ** character database of drawing 1 and in which selling to and showing the example of the ** character information on a ** character.

[Drawing 24]It is a figure showing the display example of a ** character.

[Drawing 25]It is a figure showing the display example of a ** character.

[Drawing 26]It is a figure showing the display example of a ** character when a mail function is chosen.

[Drawing 27]It is a figure showing other display examples of a ** character when a mail function is chosen.

[Drawing 28]It is a figure showing the display example of a ** character when a schedule function is chosen.

[Drawing 29]It is a figure showing other display examples of a ** character when a schedule function is chosen.

[Drawing 30]It is a figure showing the display example of a ** character when a spare clothing function is chosen.

[Drawing 31]It is a figure showing other display examples of a ** character.

[Drawing 32]It is a figure showing other display examples of a ** character.

[Description of Notations]

1 The Internet and 6 and 7 A contents server and 8. A license server 9 ** character service server and 10. A ** character database and 11 A private authentication

server12 A public authentication server and 13 [A personal computer53 detection
cards] A fee collection server and 22 A personal computer23 detection cards24
television receivers25 detection cardsand 26 A personal computer27 detection
cardsand 52

10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000